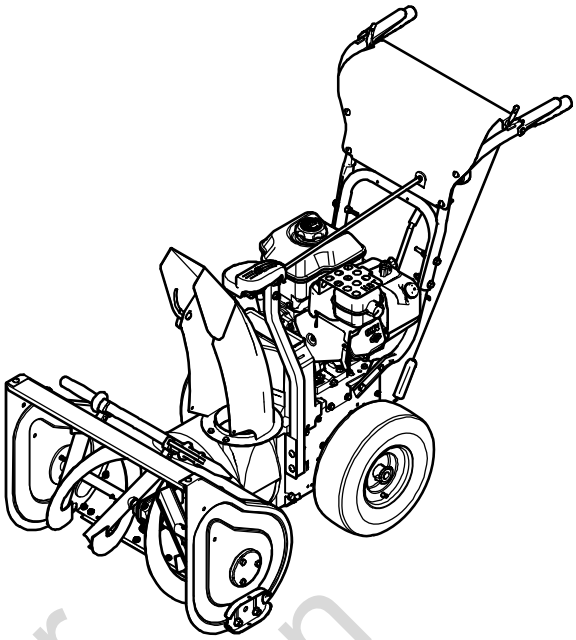
Simplicity®

# Parts Manual



# Intermediate Frame

## Snowthrowers

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### Attachment

| Mfg. No. | Description |
|---|---|
| 1695302 | 924I, 9TP 24" Snowthrower |
| 1695311 | 924IE, 9TP 24" Snowthrower (CE/Export) |
| 1695410 | 924IR, 9TP 24" Snowthrower (CE/Export) |

**Part No.:** 1735510
**Rev.** 01/2009
TP 400-4772-01-IS-S

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**PRODUCT COMPONENTS** **PAGES**

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**Torque Specification Chart ..... Inside Back Cover**

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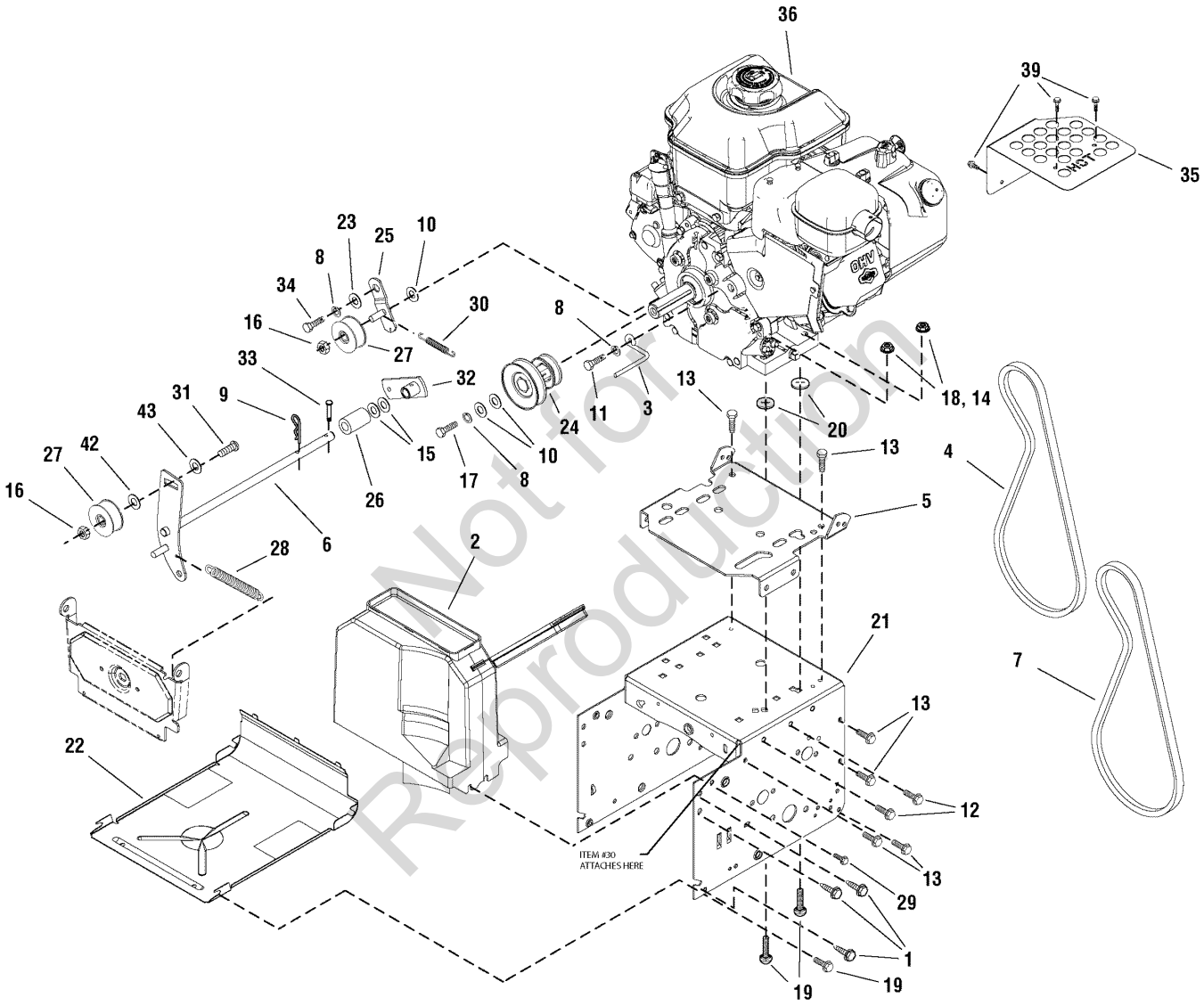
## *Engine & Frame Group*

**NOTE: Unless noted otherwise, use the standard hardware torque specification chart.**

2987650

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**The above parts group applies to the following Mfg. Nos.:**

1695302 - 924I
1695311 - 924IE
1695410 - 924IR

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## *Engine & Frame Group*

| REF NO | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 1664847SM | 6 | SCREW, Hex Washer Head Taptite, 5/16-18 x 3/4 |
| 2 | 1732486SM | 1 | COVER, Belt w/Toolbox |
| 3 | 1733014SM | 1 | STOP, Belt |
| 4 | 1733324SM | 1 | V-BELT, 3L 33.13 |
| 5 | 1733583CSM | 1 | PLATE, Engine Mount |
| 6 | 1734311SM | 1 | WELD, Auger Idler |
| 7 | 1734313SM | 1 | V-BELT, 4L 37.00 Auger |
| 8 | 1917356SM | 3 | LOCKWASHER, Spring 5/16 |
| 9 | 711682MA | 1 | PIN, Hair |
| 10 | 1919381SM | 3 | WASHER, 5/16 |
| 11 | 1921515SM | 1 | CAPSCREW, Hex Head 5/16-24 x 3/4 G5 |
| 12 | 1924856SM | 4 | SCREW, Hex Washer Head Taptite 5/16-18 x 1/2 |
| 13 | 1927429SM | 12 | SCREW, Hex Washer Head Taptite 1/4-20 x 5/8 |
| 14 | 2831277SM | 1 | NUT, Hex Flange 5/16-18 Whiz Lock |
| 15 | 1960027SM | 2 | WASHER, 1/2 |
| 16 | 1960251SM | 2 | NUT, Hex Centerlock Jaam 3/8-16 |
| 17 | 1921982SM | 1 | CAPSCREW, Hex Head 5/16-24 x 1-1/4 G5 |
| 18 | 1960686SM | 3 | NUT, Hex Flange 5/16-18 Esna |
| 19 | 002X97MA | 4 | CARRIAGE BOLT, 5/16-18 x 1-1/2 |
| 20 | 028X76MA | 4 | NUT, Push for 1/4 Diameter Thread |
| 21 | 1740572CSM | 1 | FRAME BOX |
| 22 | 1740906ASM | 1 | PANEL, Bottom |
| 23 | 1501065MA | 1 | BUSHING, Idler Bracket |
| 24 | 1501109MA | 1 | PULLEY, Engine Snow 2Stage |
| 25 | 1501112YZMA | 1 | SPOT WELD, Idler Bracket |
| 26 | 1502041MA | 1 | SPACER,-0.53 ID 1.00 OD 1.61 LG AUG IDLER |
| 27 | 1502120MA | 2 | IDLER, Plastic Ball Bearing |
| 28 | 165X159MA | 1 | SPRING, Extension Auger Idler |
| 29 | 26X306MA | 2 | SCREW, 1/4-AB x 3/4 Hex w/Extension Tooth Washer |
| 30 | 53704MA | 1 | SPRING, Extension Idler |
| 31 | 1921969SM | 1 | CAPSCREW, Hex Head 3/8-16 x 1-1/2 G5 |
| 32 | 1733451SM | 1 | ARM,  Control |
| 33 | 1735135SM | 1 | PIN, Clevis |
| 34 | 910828MA | 1 | BOLT, Hex 5/16-24 x 1 |
| 35 | 1734732SM | 1 | HEAT SHIELD, 16GA (Used only on Domestic Models) |
| 36 | -- | 1 | *ENGINE, 9.0TP B&S Mod. #12D1140118-E1 |
| 36 | -- | 1 | *ENGINE, 9.0TP B&S Mod. #12D1140119-E1 (CE/Export) |
| 36 | -- | 1 | *ENGINE, 9.0TP B&S Mod. #12D1160120-E1 (CE/Export) |
| 39 | 1929477SM | 3 | SCREW, Hex Washer Head Taptite (Used only on Domestic Models) |
| 40 | 1724064SM | 1 | CORD, Electric Extension 10FT (Used only on Domestic Models) |
| 41 | 1701011SM | 1 | TIE, Self Locking |
| 42 | 1922755SM | 1 | WASHER, 3/8 |
| 43 | 1924940SM | 1 | WASHER, 3/8 |

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### Footnotes

Note: * See your local Briggs & Stratton distributor for parts & service.

**The above parts group applies to the following Mfg. Nos.:**

1695302 - 924I
1695311 - 924IE
1695410 - 924IR

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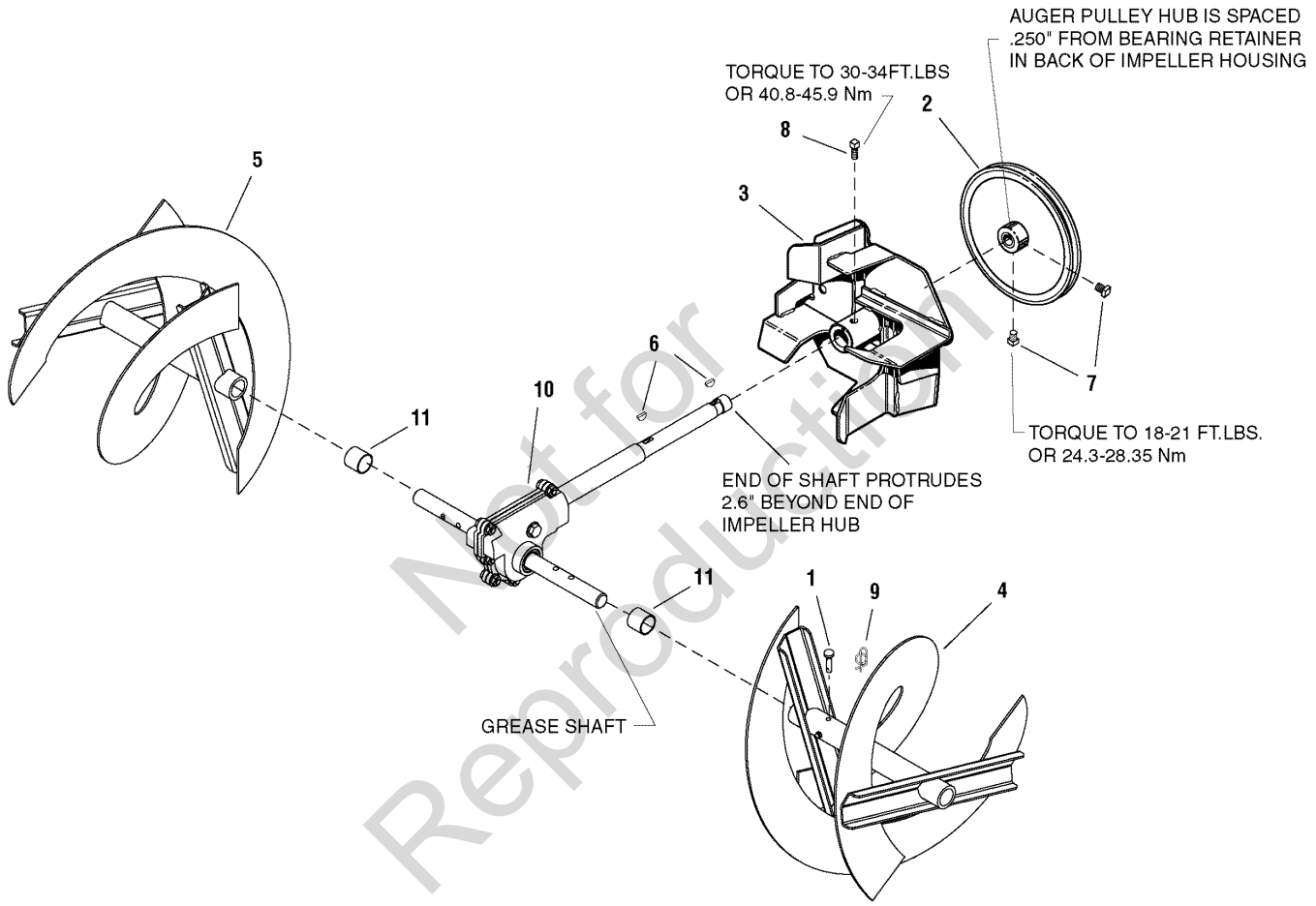
## *Auger Drive Group*

**NOTE: Unless noted otherwise, use the standard hardware torque specification chart.**

987652

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1695302 - 924I
1695311 - 924IE
1695410 - 924IR

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## *Auger Drive Group*

| REF NO | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 1668344SM | 2 | PIN, Shear |
| 2 | 1715091SM | 1 | PULLEY, Auger Input |
| 3 | 1715120ASM | 1 | IMPELLER ASSEMBLY |
| 4 | 1726535ASM | 1 | AUGER ASSEMBLY, L.H., 22" Housing |
| 5 | 1726536ASM | 1 | AUGER ASSEMBLY, R.H., 22" Housing |
| 6 | 2818312SM | 2 | KEY, Woodruff |
| 7 | 1928721SM | 2 | SCREW, Set Square Head Cup Point 5/16-18 x 1/2 G8 |
| 8 | 1960474SM | 1 | SCREW, Set Square head Cup Point 3/8-16 x 1/2 G8 |
| 9 | 7023590SM | 2 | COTTER PIN, 1/4" Self Locking |
| 10 | 1734573SM | 1 | GEAR BOX ASSEMBLY, Auger Drive |
| 11 | 1734916SM | 2 | TUBE |

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**Footnotes**

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1695302 - 924I
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1695410 - 924IR

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## *Traction Drive Group*

**NOTE: Unless noted otherwise, use the standard hardware torque specification chart.**

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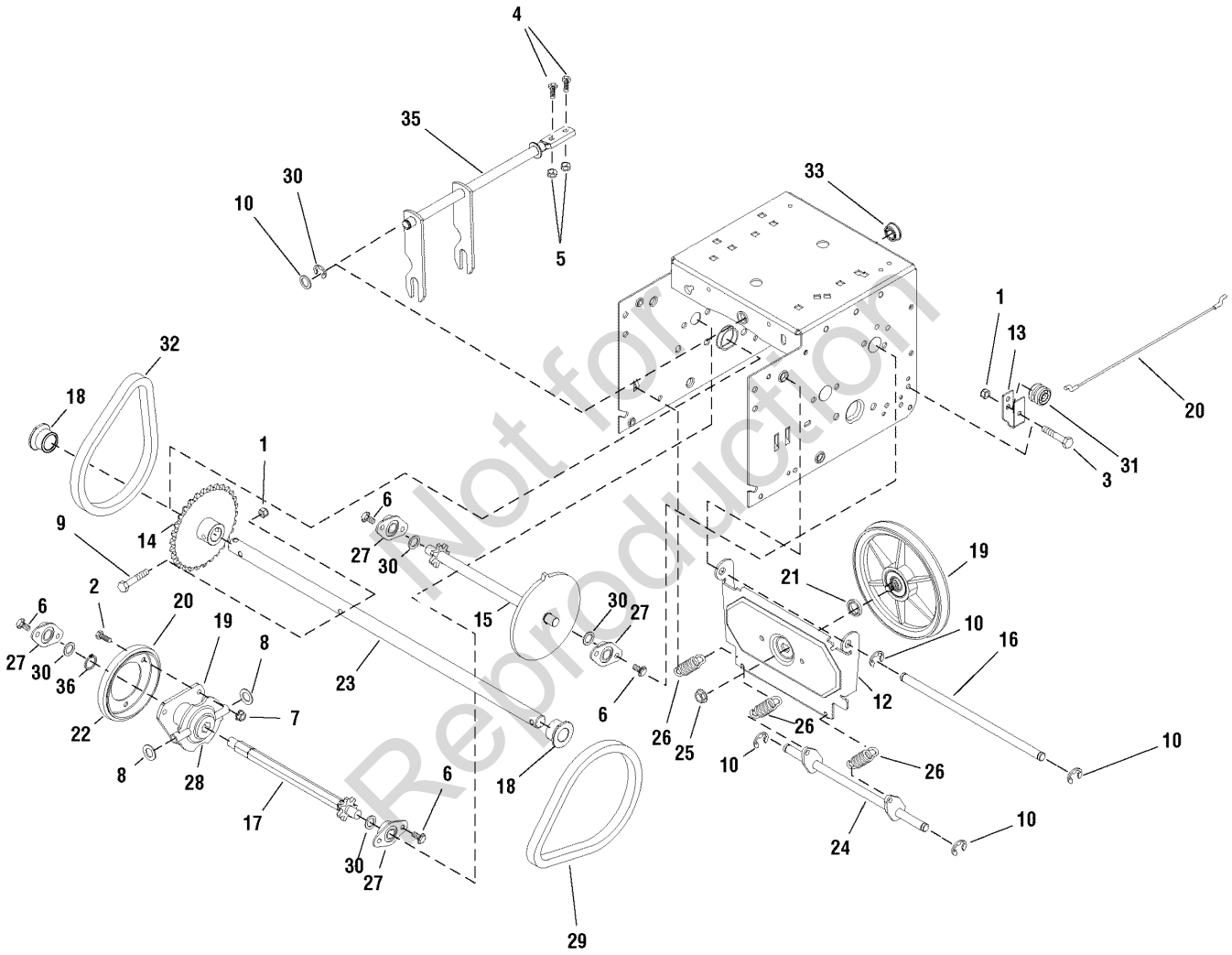


**The above parts group applies to the following Mfg. Nos.:**

1695302 - 924I
1695311 - 924IE
1695410 - 924IR

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## *Traction Drive Group*

| REF NO | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 1920397SM | 2 | NUT, Hex Lock Esna Light 1/4-20 |
| 2 | 1921959SM | 3 | CAPSCREW, Hex Head 1/4-20 x 5/8 G5 |
| 3 | 1922837SM | 1 | CAPSCREW, Hex Head 1/4-20 x 1-1/2 G5 |
| 4 | 1923341SM | 2 | CAPSCREW, Hex Head 1/4-20 x 3/4 G5 |
| 5 | 1923358SM | 2 | NUT, Hex Centerlock 1/4-20 |
| 6 | 1924856SM | 8 | SCREW, Hex Washer Head Taptite 5/16-18 x 1/2 |
| 7 | 1928372SM | 3 | NUT, Hex Keps 1/4-20 |
| 8 | 1960027SM | 2 | WASHER, 1/2 |
| 9 | 01X193MA | 1 | BOLT, Hex 1/4-20 x 1-3/4 G8 |
| 10 | 11X30MA | 5 | RETAINER, Ring 7/16 |
| 12 | 1501057YZMA | 1 | PLATE, Swinging |
| 13 | 1501059YZMA | 1 | BRACKET, Cable Spool |
| 14 | 1501089MA | 1 | WELD, Axle Sprocket |
| 15 | 1501090MA | 1 | SPROCKET, Set |
| 16 | 1501092YZMA | 1 | AXLE, Swing Plate |
| 17 | 1501100MA | 1 | HEX SHAFT & SPROCKET ASSEMBLY |
| 18 | 1501114MA | 2 | BEARING, Axle D-Hole |
| 19 | 1501115MA | 1 | FRICTION PULLEY ASSEMBLY |
| 20 | 1501122MA | 1 | CABLE, Front Drive |
| 21 | 1501158MA | 1 | SPACER, Friction Pulley |
| 22 | 1501435MA | 1 | WHEEL, Friction |
| 23 | 1501562MA | 1 | AXLE |
| 24 | 1502105YZMA | 1 | WELD, Spring Link |
| 25 | 15X114MA | 1 | NUT, 38-24 FlangeLock |
| 26 | 165X112MA | 3 | SPRING, Extension |
| 27 | 334163MA | 4 | RETAINER & BUSHING ASSEMBLY |
| 28 | 337029MA | 1 | HUB, Friction Wheel & Bearing |
| 29 | 579851MA | 1 | CHAIN, Roller |
| 30 | 579858MA | 5 | WASHER, Flat |
| 31 | 579860MA | 1 | SPOOL CABLE, Auger Control |
| 32 | 579868MA | 1 | CHAIN, Roller |
| 33 | 579944MA | 1 | BEARING, Flange 1/2 x 7/8 |
| 35 | 1501085YZMA | 1 | WELD, Speed Select |
| 36 | 1733326SM | 1 | RING, Retaining Extension |

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**Footnotes**

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1695410 - 924IR

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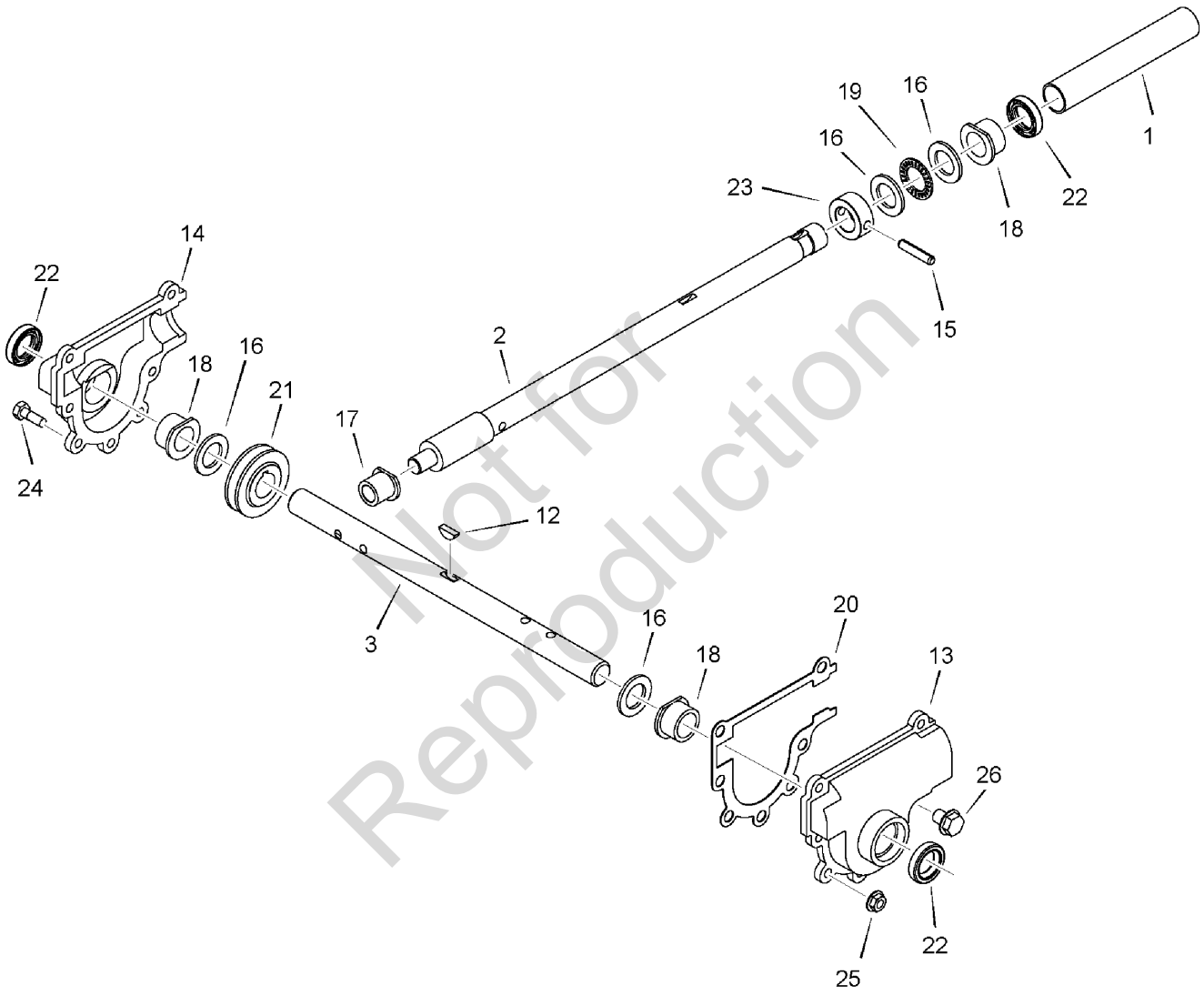
## *Gear Case Assembly*

**NOTE: Unless noted otherwise, use the standard hardware torque specification chart.**

1734573

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1695410 - 924IR

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## *Gear Case Assembly*

| REF NO | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 1612112SM | 1 | TUBE, Plastic |
| 2 | 1734356SM | 1 | SHAFT, Impeller |
| 3 | 1734368SM | 1 | SHAFT, Auger Intermediate |
| 12 | 431787MA | 1 | KEY, Woodruff, #61, 5/8 x 3/16 |
| 13 | 10576MA | 1 | GEAR CASE, LH |
| 14 | 10577MA | 1 | GEAR CASE, RH |
| 15 | 454565MA | 1 | PIN, Spring |
| 16 | 48275MA | 4 | WASHER, Thrust |
| 17 | 50221MA | 1 | BUSHING, Worm |
| 18 | 5034MA | 3 | BUSHING, Shaft |
| 19 | 50684MA | 1 | BEARING, Needle Thrust |
| 20 | 51279MA | 1 | GASKET |
| 21 | 51405MA | 1 | GEAR, Worm |
| 22 | 9566MA | 3 | SEAL, Oil |
| 23 | 580295MA | 1 | COLLAR, Thrust, 3/4 X 1-1/4 |
| 24 | 710025MA | 7 | CAPSCREW, 1/4-20 X 3/4 |
| 25 | 15X143MA | 7 | NUT, Hex-Flange, Center-Lock, 1/4-20 |
| 26 | 9344MA | 1 | SCREW, 3/8-16 X 1/2 |

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**Footnotes**

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1695302 - 924I
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1695410 - 924IR

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## *Handles & Controls Group*

**NOTE: Unless noted otherwise, use the standard hardware torque specification chart.**

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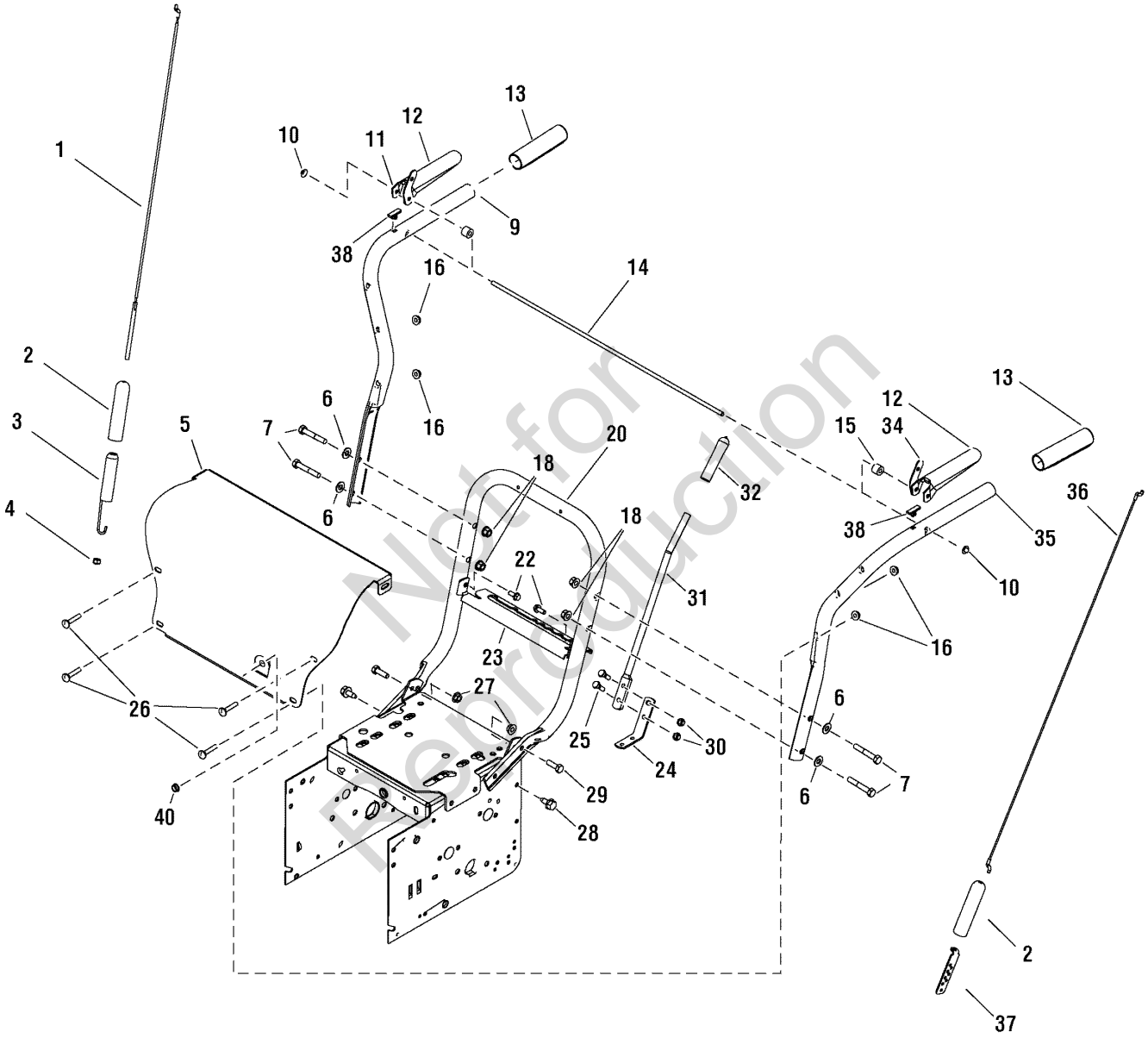


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1695410 - 924IR

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## *Handles & Controls Group*

| REF NO | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 761872MA | 1 | CABLE, Auger |
| 2 | 308146MA | 2 | BOOT, Spring End Cover |
| 3 | 1673MA | 1 | SPRING, Auger Control |
| 4 | 1920397SM | 1 | NUT, Hex Lock Esna Light 1/4-20 |
| 5 | 1734250CSM | 1 | PANEL, Dash Upper |
| 6 | 1919326SM | 4 | WASHER, 5/16 |
| 7 | 1921978SM | 4 | CAPSCREW, Hex Head 5/16-18 x 2 G5 |
| 9 | 1740573ASM | 1 | HANDLE, Upper |
| 10 | 1960126SM | 2 | NUT, Push Pal 1/4 Diameter Stud Capped |
| 11 | 337816E701MA | 1 | LEVER ASSEMBLY, Clutch R.H. |
| 12 | 337380MA | 2 | GRIP, Control Lever |
| 13 | 337399MA | 2 | GRIP, Handle |
| 14 | 1734522SM | 1 | ROD, 1/4 Diamter 21.81 Large |
| 15 | 1734396SM | 2 | SPACER |
| 16 | 1960694SM | 4 | NUT, Hex Flange 1/4-20 Esna |
| 18 | 1960686SM | 4 | NUT, Hex Flange 5/16-18 Esna |
| 20 | 1740701ASM | 1 | HANDLE, Lower |
| 22 | 1927429SM | 2 | SCREW, Hex Washer Head Taptite 1/4-20 x 5/8 |
| 23 | 1740698ASM | 1 | BRACKET, Gear Select |
| 24 | 760564MA | 1 | LEVER, Spring Shift |
| 25 | 1923341SM | 2 | CAPSCREW, Hex Head 1/4-20 x 3/4 G5 |
| 26 | 1960633SM | 4 | CARRIAGE BOLT, 1/4-20 x 1-1/2 G5 |
| 27 | 1935048SM | 2 | NUT, Hex Flange 5/16-18 Two-Way Lock |
| 28 | 1664847SM | 2 | SCREW, Hex Washer Head Taptite 5/16-18 x 3/4 |
| 29 | 1921333SM | 2 | CAPSCREW, Hex Head 5/16-18 x 1 G5 |
| 30 | 1923358SM | 2 | NUT, Hex Centerlock 1/4-20 |
| 31 | 336702E701MA | 1 | ROD, Shift No Thread |
| 32 | 331624MA | 1 | GRIP, Ball End |
| 34 | 337815E701MA | 1 | LEVER ASSEMBLY, Clutch L.H. |
| 35 | 1740587ASM | 1 | HANDLE, Upper L.H. |
| 36 | 1501123MA | 1 | CABLE, Front Drive |
| 37 | 313441MA | 1 | BRACKET, Cable Adjusting |
| 38 | 4049MA | 2 | BUMPER |
| 40 | 1667588SM | 1 | BUSHING |

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**Footnotes**

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## *Wheel & Tire Group*

**NOTE: Unless noted otherwise, use the standard hardware torque specification chart.**

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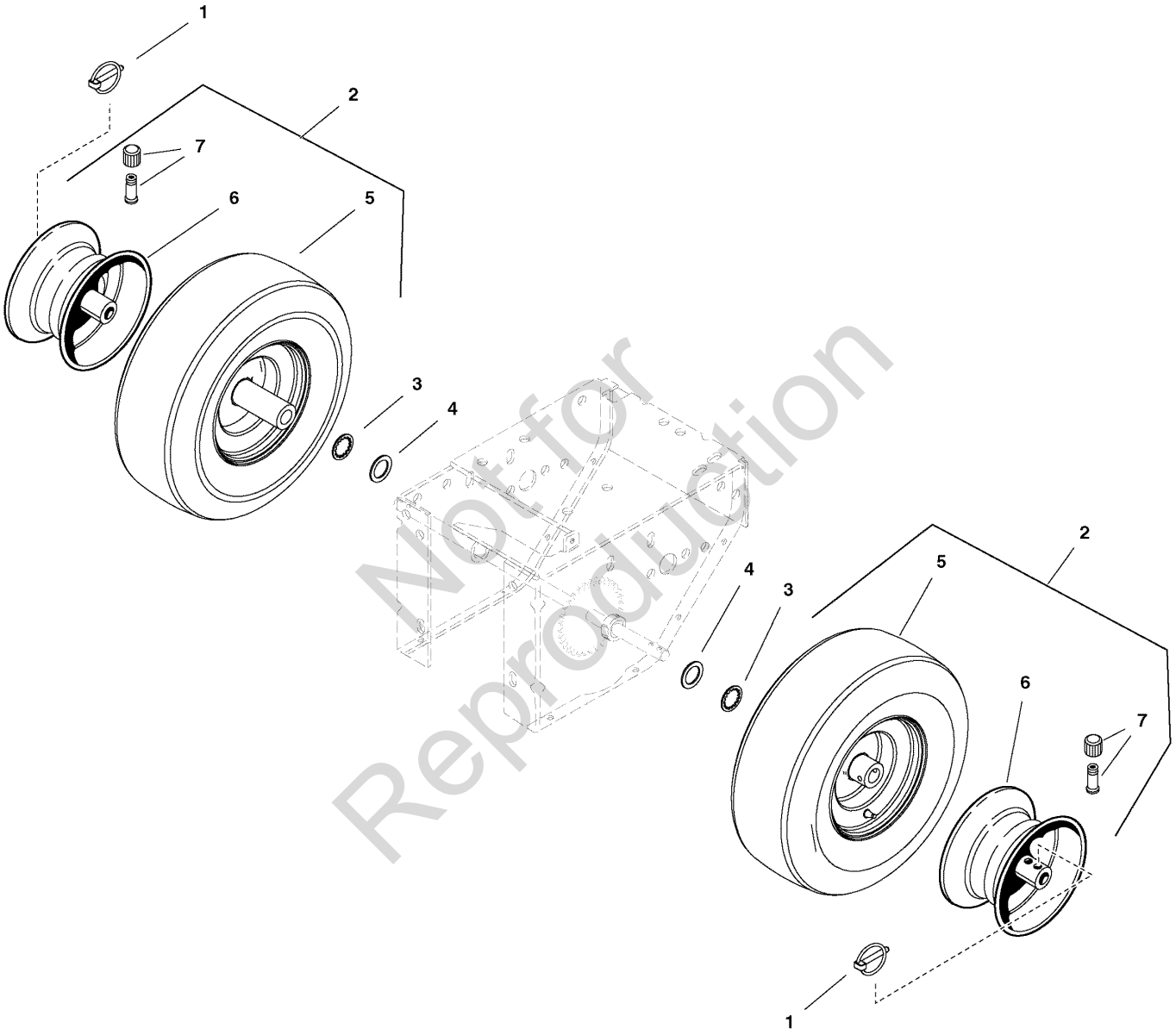


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1695410 - 924IR

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## *Wheel & Tire Group*

| REF NO | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 1679697SM | 2 | PIN, Klik |
| 2 | 1734045SM | 2 | WHEEL & TIRE ASSEMBLY, 13 x 5 |
| 3 | 1657528SM | 2 | RETAINING RING, Extension, #75 3/4 Self Lock |
| 4 | 712120MA | 2 | WASHER, Flat |
| 5 | 1734997SM | 2 | WHEEL, 3.25 Wide 6.00 Diameter |
| 6 | 1734998SM | 2 | TIRE, 13 x 6.00 Snow Hog |
| 7 | 2172353SM | 2 | VALVE STEM & CAP, Air |

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**Footnotes**

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1695410 - 924IR

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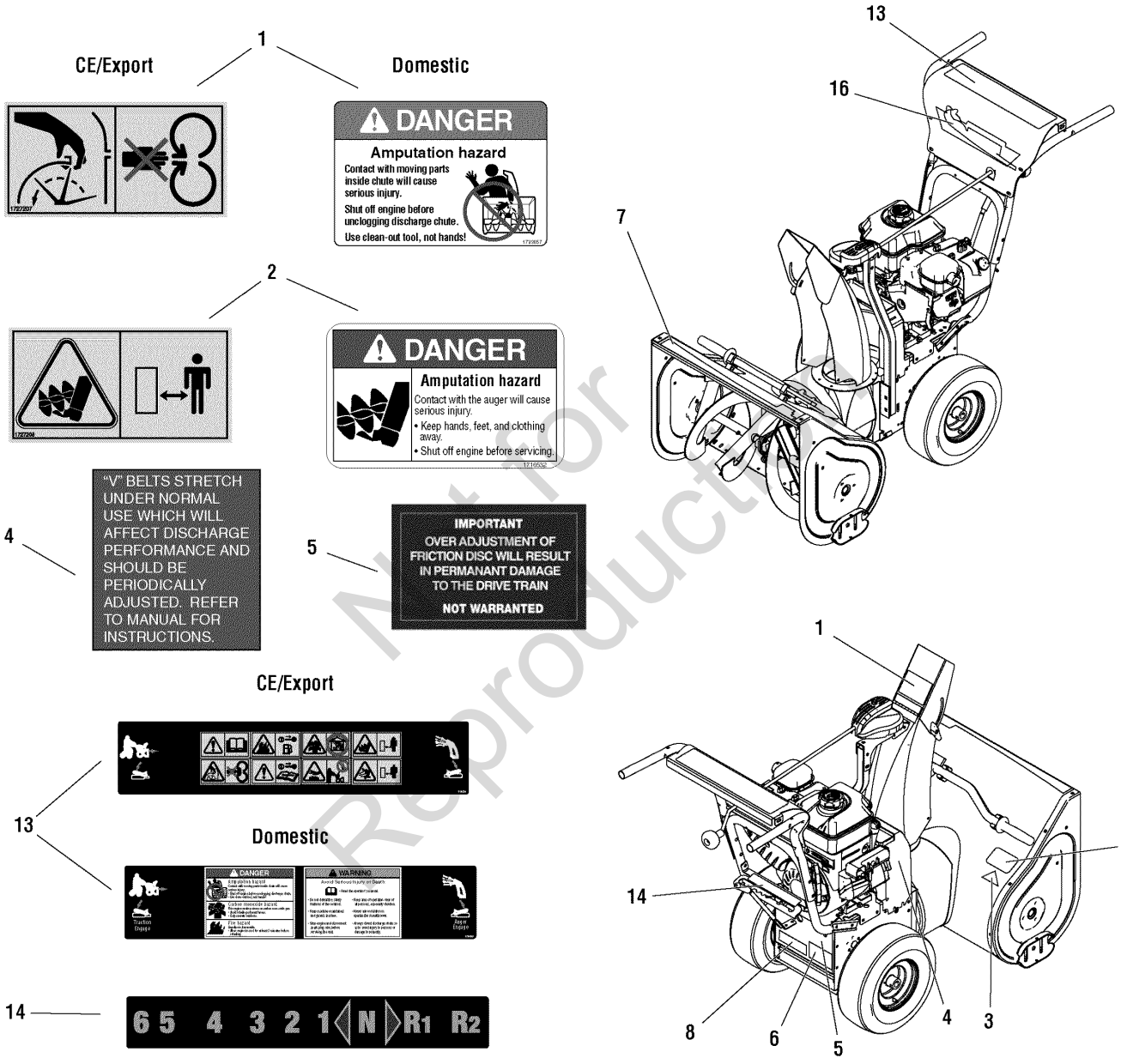
## *Decals Group*

**NOTE: Unless noted otherwise, use the standard hardware torque specification chart.**

2987712

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1695410 - 924IR

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## *Decals Group*

| REF NO | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 1727207SM | 1 | DECAL, Chute Warning (CE/Export) |
| 1 | 1733057SM | 1 | DECAL, Danger Amputation Hazard |
| 2 | 1727208SM | 1 | DECAL, Impeller Warning (CE/Export) |
| 2 | 1716532SM | 1 | DECAL, Danger Avoid Injury, Auger |
| 3 | -- | 1 | *DECAL, OPEI |
| 4 | 7390MA | 1 | DECAL, Belt Stretch and Adjustment (Domestic Models Only) |
| 5 | 7859MA | 1 | DECAL, Over Adjust of Friction Disc (Domestic Models Only) |
| 6 | -- | 1 | *STICKER, Serial w/Bar Code |
| 7 | 1735119SM | 1 | DECAL, SMI Stripe 924IE (CE/Export) |
| 7 | 1735120SM | 1 | DECAL, SMI Stripe 924IR (CE/Export) |
| 7 | 1734497SM | 1 | DECAL, SMI Stripe 924I |
| 8 | 1720454SM | 1 | DECAL, Touch Up Paint |
| 13 | 1734591SM | 1 | DECAL, Dash (CE/Export) |
| 13 | 1734499SM | 1 | DECAL, Dash |
| 14 | 1735229SM | 1 | DECAL, Speed Control |
| 16 | 1735113SM | 1 | DECAL, SMI Dash Swoosh |

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**Footnotes**

Note* Not a serviceable part

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1695410 - 924IR

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## *Auger Housing & Chute Group*

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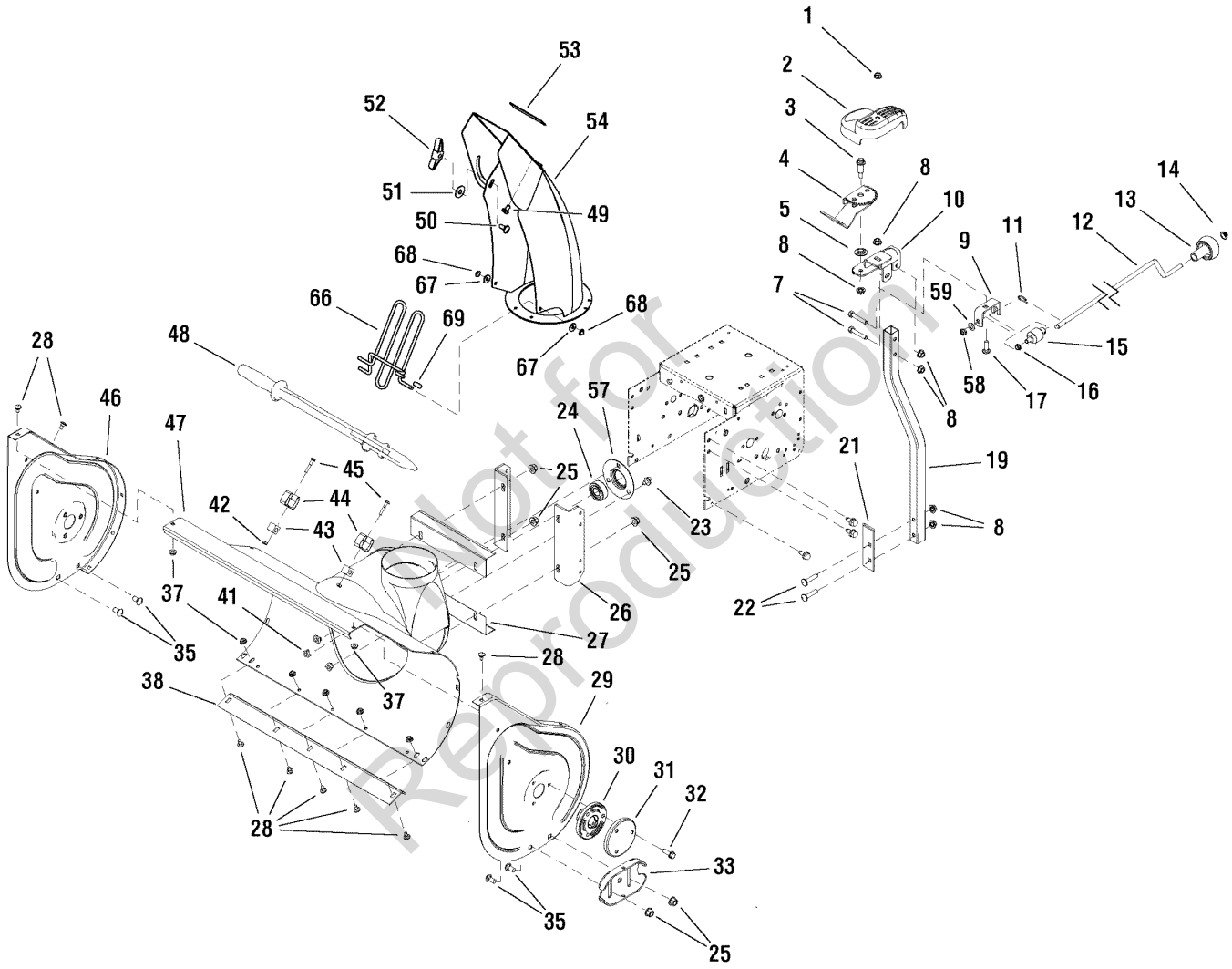
2987710

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1695410 - 924IR

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## *Auger Housing & Chute Group*

| REF NO | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 1935048SM | 1 | NUT, Hex Flange 5/16-18 Two Way Lock |
| 2 | 1734442SM | 1 | COVER, Gears |
| 3 | 1732412SM | 1 | BOLT, Shoulder 5/16-18 G5 |
| 4 | 1734773SM | 1 | GEAR & SUPPORT ASSEMBLY, Chute |
| 5 | 1733026SM | 1 | WASHER, Powdered Metal |
| 7 | 1922127SM | 2 | CAPSCREW, Hex Head 5/16-18 x 1-3/4 G5 |
| 8 | 1960684SM | 6 | NUT, Hex KEPS 5/16-18 Conical Washer |
| 9 | 1734440SM | 1 | SUPPORT, Worm "U" 10GA |
| 10 | 1734423ASM | 1 | SUPPORT, Gear & Chute 10GA |
| 11 | 1501293MA | 1 | PIN, Hair Chute Gear |
| 12 | 1734404SM | 1 | ROD, Chute Control E-Coat |
| 13 | 1714084SM | 1 | KNOB, Spinner |
| 14 | 1960093SM | 1 | NUT, Push Pal 3/8 Diameter Stud Capped |
| 15 | 1734439SM | 1 | WORM, Chute L.H. |
| 16 | 1667588SM | 1 | BUSHING |
| 17 | 1931335SM | 1 | CARRIAGE BOLT, 5/16-18 x 1 G5 |
| 19 | 1734195ASM | 1 | TUBE |
| 21 | 1734201ASM | 1 | SUPPORT, Tube 10GA |
| 22 | 1931337SM | 2 | CARRIAGE BOLT, 5/16-18 x 1-1/2 G5 |
| 23 | 1931648SM | 3 | SCREW, Hex Whiz Lock Flange 5/16-18 x 1/2 |
| 24 | 2108202SM | 1 | BEARING, Ball |
| 25 | 1960687SM | 8 | NUT, Hex Flange 3/8-16 ESNA |
| 26 | 1734055CSM | 2 | BRACKET, Housing 12GA |
| 27 | 1734063CSM | 2 | ANGLE, Fill Strip |
| 28 | 1931315SM | 17 | CARRIAGE BOLT, 1/4-20 x 1/2 G5 |
| 29 | 1726458CSM | 1 | PLATE, End L.H. |
| 30 | 1726457SM | 2 | HOUSING, Auger Bearing |
| 31 | 1668639ASM | 2 | CAP, Bearing |
| 32 | 1960373SM | 6 | SCREW, Hex Washer Head Taptite 5/16-18 x 1 |
| 33 | 1727854ASM | 2 | SKID, Shoe Reversible |
| 35 | 1960711SM | 4 | CARRIAGE BOLT, 3/8-16 x 3/4 G5 |
| 37 | 1930641SM | 17 | NUT, Hex Flange 1/4-20 Whiz Lock Large |
| 38 | 7300098ASM | 1 | BLADE, Scraper 24" |
| 41 | 1930659SM | 3 | RETAINER, Nut, 5/16-18 |
| 42 | 1933896SM | 2 | NUT, Hex Lock 10-24 w/Nylon Insert |
| 43 | 578063MA | 2 | BLOCK, Universal Pivot |
| 44 | 1501672MA | 2 | CLIP, Retainer |
| 45 | 2860604SM | 2 | SCREW, Hex Washer Head Slot #10C x 1-1/4 G2 |
| 46 | 1726459CSM | 1 | PLATE, End R.H. 14GA |
| 47 | 1734475CSM | 1 | WRAPPER ASSEMBLY, 24" Auger |
| 48 | 1733209SM | 1 | STICK, Cleanout w/Brush |
| 49 | 7091542SM | 3 | SCREW, Phillips Head Taptite, Torx 5/16C x 1/2 |
| 50 | 1931333SM | 1 | CARRIAGE BOLT, 5/16-18 x 3/4 |

**Footnotes**

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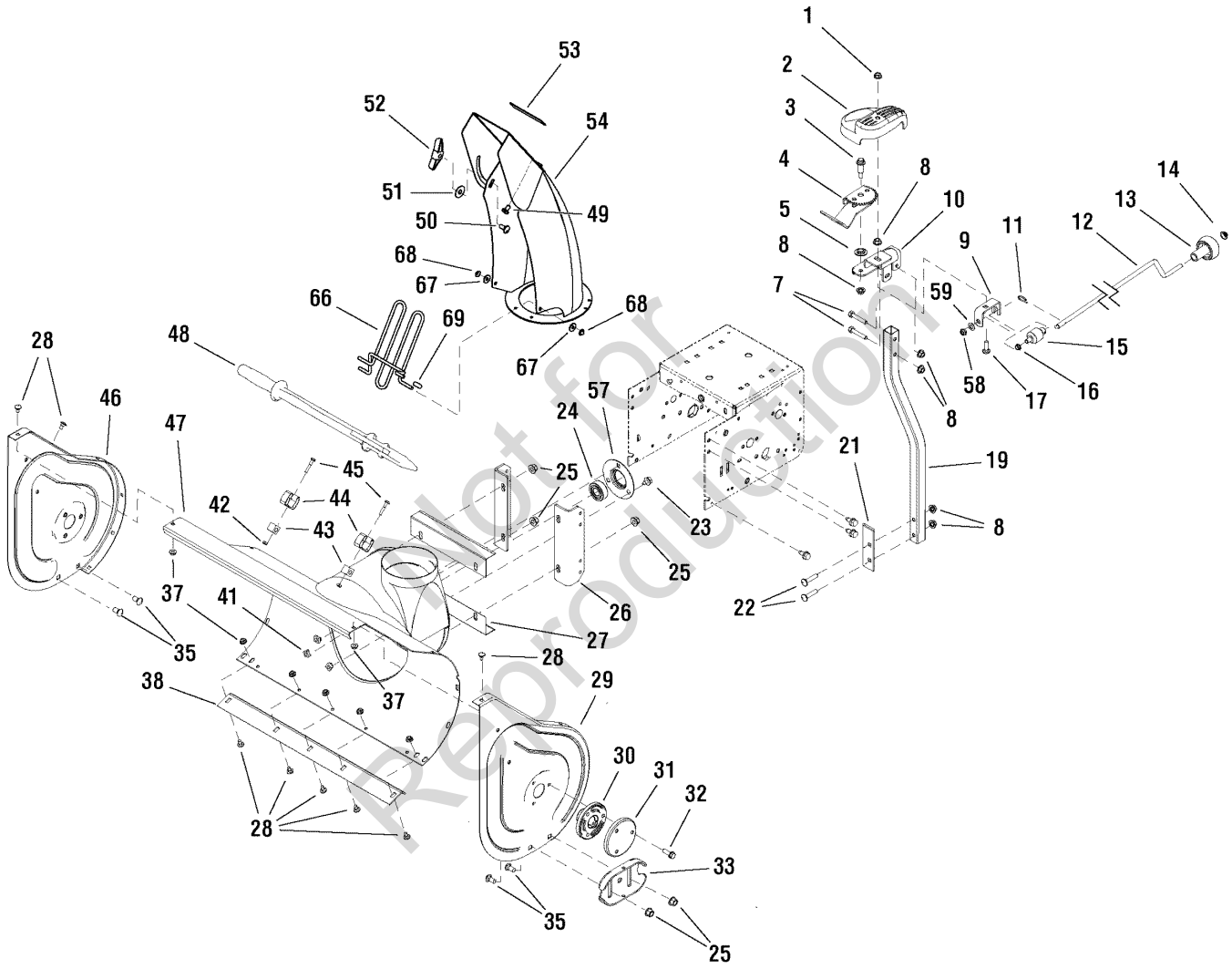
## *Auger Housing & Chute Group*

**NOTE: Unless noted otherwise, use the standard hardware torque specification chart.**

2987710

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**The above parts group applies to the following Mfg. Nos.:**

1695302 - 924I
1695311 - 924IE
1695410 - 924IR

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## *Auger Housing & Chute Group*

| REF NO | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 51 | 2860210SM | 1 | WASHER |
| 52 | 071294MA | 1 | WINGNUT, 5/16-18 |
| 53 | 1706085SM | 2 | DECAL, Hinge |
| 54 | 1734206CSM | 1 | CHUTE & DEFLECTOR ASSEMBLY |
| 57 | 1665982SM | 1 | RETAINER, Bearing |
| 58 | 1960762SM | 1 | NUT, Hex Lock Jam ESNA Lite 3/8-24 |
| 59 | 1734542SM | 1 | WASHER, Cup |
| 66 | 1735174SM | 1 | GUARD, Chute |
| 67 | 1678366SM | 2 | WASHER, Nylon |
| 68 | 1960126SM | 2 | NUT, Push 1/4 |
| 69 | 1733647SM | 1 | CAP, Wire 1/4 |

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**Footnotes**

**The above parts group applies to the following Mfg. Nos.:**
1695302 - 924I
1695311 - 924IE
1695410 - 924IR

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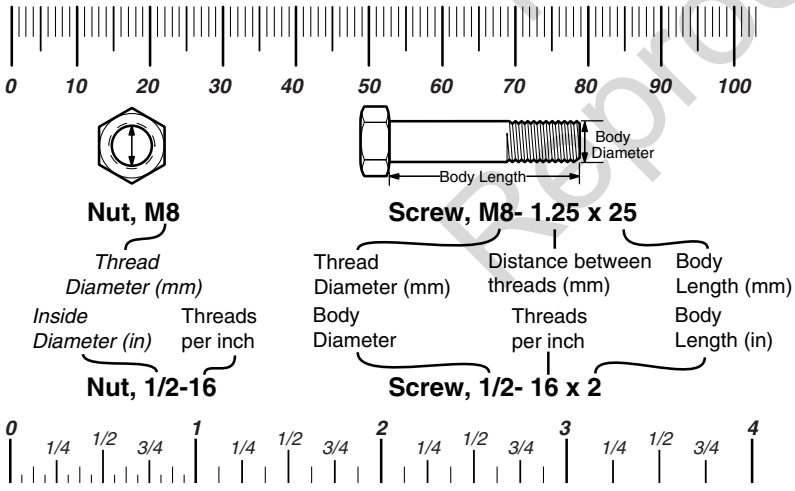
# Hardware Identification & Torque Specifications

## Torque Specification Chart

FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)

| Property Class | 5.6 Class 5.6 | | 8.8 Class 8.8 | | 10.9 Class 10.9 | | 12.9 Class 12.9 | |
|---|---|---|---|---|---|---|---|---|
| **Size Of Hardware** | *in/lbs* **ft/lbs** | Nm. | *in/lbs* **ft/lbs** | Nm. | *in/lbs* **ft/lbs** | Nm. | *in/lbs* **ft/lbs** | Nm. |
| M3 | *5.88* | *.56* | *13.44* | *1.28* | *19.2* | *1.80* | *22.92* | 2.15 |
| M4 | *13.44* | *1.28* | *30.72* | *2.90* | *43.44* | *4.10* | *52.56* | 4.95 |
| M5 | *26.4* | *2.50* | *60.96* | *5.75* | **5.97** | *8.10* | **7.15** | 9.7 |
| M6 | *44.64* | *4.3* | **7.3** | *9.9* | **10.3** | *14* | **12.1** | 16.5 |
| M7 | **5.2** | *7.1* | **12.1** | *16.5* | **16.9** | *23* | **19.9** | 27 |
| M8 | **7.7** | *10.5* | **17.7** | *24* | **25** | *34* | **29** | 40 |
| M10 | **15** | *21* | **35** | *48* | **50** | *67* | **59** | 81 |
| M12 | **26** | *36* | **61** | *83* | **86.2** | *117* | **103** | 140 |
| M14 | **42** | *58* | **101** | *132* | **136** | *185* | **162** | 220 |
| M16 | **64** | *88* | **147** | *200* | **210** | *285* | **250** | 340 |
| M18 | **89** | *121* | **202** | *275* | **287** | *390* | **346** | 470 |
| M20 | **126** | *171* | **290** | *390* | **405** | *550* | **486** | 660 |
| M22 | **169** | *230* | **390** | *530* | **559** | *745* | **656** | 890 |
| M24 | **217** | *295* | **497** | *375* | **708** | *960* | **840** | 1140 |
| M27 | **320** | *435* | **733** | *995* | **1032** | *1400* | **1239** | 1680 |
| M30 | **435** | *590* | **995** | *1350* | **1401** | *1900* | **1681** | 2280 |
| M33 | **590** | *800* | **1349** | *1830* | **1902** | *2580* | **2278** | 3090 |
| M36 | **759** | *1030* | **1740** | *2360* | **2441** | *3310* | **2935** | 3980 |
| M39 | **988** | *1340* | **2249** | *3050* | **3163** | *4290* | **3798** | 5150 |

***The guides and ruler furnished below are designed to help you select the appropriate hardware.***


0 10 20 30 40 50 60 70 80 90 100
Body Diameter
Body Length
Nut, M8
Screw, M8- 1.25 x 25
Thread Diameter (mm)
Inside Diameter (in)
Threads per inch
Nut, 1/2-16
Distance between threads (mm)
Body Length (mm)
Body Diameter
Threads per inch
Body Length (in)
Screw, 1/2- 16 x 2
0 1/4 1/2 3/4 1 1/4 1/2 3/4 2 1/4 1/2 3/4 3 1/4 1/2 3/4 4

### Standard Hardware Sizing

When a washer or nut is identified as **1/2"** (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

When bolt or capscrew is identified as **1/2 - 16 x 2"** (M8 - 1.25 x 50 ), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number,16, represents the *threads per inch, (1.25 thread diameter).* The final number is the body length of the bolt or screw, 2 inches (50mm).

## Torque Specification Chart

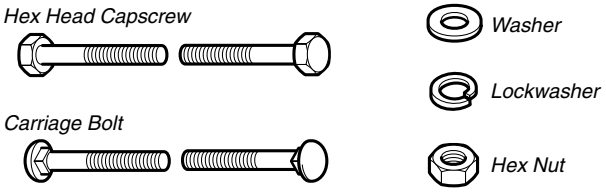
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)

| Hardware Grade | No Marks SAE Grade 2 | | SAE Grade 5 | | SAE Grade 8 | |
|---|---|---|---|---|---|---|
| **Size Of Hardware** | *in/lbs* **ft/lbs** | Nm. | *in/lbs* **ft/lbs** | Nm. | *in/lbs* **ft/lbs** | Nm. |
| 8-32 | *19* | 2.1 | *30* | 3.4 | *41* | 4.6 |
| 8-36 | *20* | 2.3 | *31* | 3.5 | *43* | 4.9 |
| 10-24 | *27* | 3.1 | *43* | 4.9 | *60* | 6.8 |
| 10-32 | *31* | 3.5 | *49* | 5.5 | *68* | 7.7 |
| 1/4-20 | *66* | 7.6 | **8** | 10.9 | **12** | 16.3 |
| 1/4-28 | *76* | 8.6 | **10** | 13.6 | **14** | 19.0 |
| 5/16-18 | **11** | 15.0 | **17** | 23.1 | **25** | 34.0 |
| 5/16-24 | **12** | 16.3 | **19** | 25.8 | **29** | 34.0 |
| 3/8-16 | **20** | 27.2 | **30** | 40.8 | **45** | 61.2 |
| 3/8-24 | **23** | 31.3 | **35** | 47.6 | **50** | 68.0 |
| 7/16-14 | **30** | 40.8 | **50** | 68.0 | **70** | 95.2 |
| 7/16-20 | **35** | 47.6 | **55** | 74.8 | **80** | 108.8 |
| 1/2-13 | **50** | 68.0 | **75** | 102.0 | **110** | 149.6 |
| 1/2-20 | **55** | 74.8 | **90** | 122.4 | **120** | 163.2 |
| 9/16-12 | **65** | 88.4 | **110** | 149.6 | **150** | 204.0 |
| 9/16-18 | **75** | 102.0 | **120** | 163.2 | **170** | 231.2 |
| 5/8-11 | **90** | 122.4 | **150** | 204.0 | **220** | 299.2 |
| 5/8-18 | **100** | 136 | **180** | 244.8 | **240** | 326.4 |
| 3/4-10 | **160** | 217.6 | **260** | 353.6 | **386** | 525.0 |
| 3/4-16 | **180** | 244.8 | **300** | 408.0 | **420** | 571.2 |
| 7/8-9 | **140** | 190.4 | **400** | 544.0 | **600** | 816.0 |
| 7/8-14 | **155** | 210.8 | **440** | 598.4 | **660** | 897.6 |
| 1-8 | **220** | 299.2 | **580** | 788.8 | **900** | 1,244.0 |
| 1-12 | **240** | 326.4 | **640** | 870.4 | **1,000** | 1,360.0 |

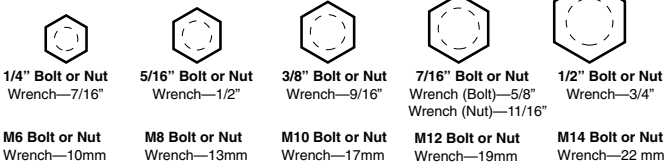
**NOTES**

1. These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
2. Recommended seating torque values for locknuts:
   a. for prevailing torque locknuts - use 65% of grade 5 torques.
   b. for flange whizlock nuts and screws - use 135% of grade 5 torques.
3. Unless otherwise noted on assembly drawings, all torque values must meet this specification.

### Common Hardware Types




### Wrench & Fastener Size Guide

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